

28-OCT-09  
10:23:15

GEORGIA DEPARTMENT OF TRANSPORTATION  
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN  
LIVE LOAD CASE PROGRAM  
REVISED: JUNE 26, 2008

PROB. NO. LL01

32.00' CURB-TO-CURB; 5 BEAMS; 140.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
35.250	3.625	3.625	17.625	5	68.706	2	1	8.000	0

  

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	7.000	7.000	7.000	7.000															

  

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
17.625				

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1429	78.521
2	0.8571	58.891
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1429	78.521
2	1.4286	98.151
3	1.1429	78.521
4	0.2857	19.630
5	0.0000	0.000

LIVE LOAD CASE # 3 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0000	0.000
4	0.8571	58.891
5	1.1429	78.521

LIVE LOAD CASE # 4 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000

2	0.2857	19.630
3	1.1429	78.521
4	1.4286	98.151
5	1.1429	78.521

LIVE LOAD CASE # 5 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.4286	29.445
3	1.1429	78.521
4	0.4286	29.445
5	0.0000	0.000

LIVE LOAD CASE # 6 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.8571	58.891
2	1.5714	107.967
3	1.1429	78.521
4	0.4286	29.445
5	0.0000	0.000

LIVE LOAD CASE # 7 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.1429	9.815
2	1.1429	78.521
3	1.4286	98.151
4	1.1429	78.521
5	0.1429	9.815

LIVE LOAD CASE # 8 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1429	78.521
2	0.8571	58.891
3	0.0000	0.000
4	0.8571	58.891
5	1.1429	78.521

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PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN  
SUMMARY OF THE LIVE LOAD CASE PROGRAM  
REVISED: JUNE 26, 2008

PROB. NO. LL01

32.00' CURB-TO-CURB; 5 BEAMS; 140.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
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35.250 3.625 3.625 17.625 5 68.706 LL-32-5-140.OUT  
 2 1 8.000 0  
 D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20  
 3.625 7.000 7.000 7.000 7.000

XCOL1 XCOL2 XCOL3 XCOL4 XCOL5  
 17.625

		NO. OF TRUCKS	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7	BEAM 8	BEAM 9	BEAM 10
LL CASE	1	1	78.521	58.891	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	2	2	78.521	98.151	78.521	19.630	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	3	1	0.000	0.000	0.000	58.891	78.521	0.000	0.000	0.000	0.000	0.000
LL CASE	4	2	0.000	19.630	78.521	98.151	78.521	0.000	0.000	0.000	0.000	0.000
LL CASE	5	1	0.000	29.445	78.521	29.445	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	6	2	58.891	107.967	78.521	29.445	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	7	2	9.815	78.521	98.151	78.521	9.815	0.000	0.000	0.000	0.000	0.000
LL CASE	8	2	78.521	58.891	0.000	58.891	78.521	0.000	0.000	0.000	0.000	0.000

FOR PIER PROGRAM INPUT

61LL	1	1	78521	58890	0	0	0	0	0
61LL	2	2	78521	98151	0	78521	0	19630	0
61LL	3	1	0	0	0	0	58890	78521	0
61LL	4	2	0	19630	0	78521	0	98151	78521
61LL	5	1	0	29445	0	78521	0	29445	0
61LL	6	2	58890	107966	0	78521	0	29445	0
61LL	7	2	9815	78521	0	98151	0	78521	9815
61LL	8	2	78521	58890	0	0	58890	78521	0